



THE UNIVERSITY OF ARIZONA

Lowell Institute for  
**MINERAL RESOURCES**

*The Geotechnical Center of Excellence*

hereby grants this certificate to

**Luis Angel Guerrero Hoyos**

For successful completion of the

**GEOTECHNICAL RADAR MONITORING  
SHORT COURSE**

Issued December 2020

27 HOURS COMPLETED

Dr. Brad Ross  
Director

Chad Williams  
Assistant Director